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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,276	08/05/2003	Andreas Fath	071308.0463	7127	
31625 7	590 02/24/2005		EXAM	INER	
BAKER BOT PATENT DEP		•	KIM, CHRIS	KIM, CHRISTOPHER S	
• • • • • • • • • • • • • • • • • • • •	NTO BLVD., SUITE 150	0	ART UNIT	PAPER NUMBER	
AUSTIN, TX	78701-4039		3752		

DATE MAILED: 02/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/634,276	FATH ET AL.			
		Examiner	Art Unit			
		Christopher S. Kim	3752			
Period f	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
THE - External after series of the series of	MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d yill apply and will expire SIX (6) MONTHS fro y cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. NED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 05 A	ugust 2003.				
2a)□		action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	tion of Claims					
4)⊠	Claim(s) <u>1-10</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)[Claim(s) is/are allowed.					
6)⊠	Claim(s) <u>1-10</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or election requirement.					
Applicat	tion Papers		•			
9)[The specification is objected to by the Examine	r.	•			
10)🖂	10)⊠ The drawing(s) filed on <u>05 August 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is o	objected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Office	ce Action or form PTO-152.			
Priority	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priori	s have been received. s have been received in Applica	ation No			
	application from the International Bureau	•	v			
*	See the attached detailed Office action for a list	of the certified copies not recei	ved.			
	•					
Attachme		o □	(DTO 442)			
	ice of References Cited (PTO-892) ice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summa Paper No(s)/Mail	Date			
3) M Info	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date 8/5/03.		I Patent Application (PTO-152)			

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "gap is implemented as an elongated recess in the nozzle needle..." recited in claims 2 and 7 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filling date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 5 recites the limitation "the conical nozzle needle tip" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 5 recites the limitations "the same included angle" in line 3. There is insufficient antecedent basis for this limitation in the claim

Claim 10 recites the limitation "the conical nozzle needle tip" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

Claim 10 recites the limitations "the same included angle" in line 3. There is insufficient antecedent basis for this limitation in the claim

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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5. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Hofmann et al. (WO 99/30028).

Hofmann discloses a fuel injection valve comprising: a nozzle body 30; a nozzle needle 10; conical nozzle needle tip 12; frusto-conical body section 51.

6. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Ushimura (4,470,548).

Ushimura discloses a fuel injection valve comprising: a nozzle body 14; a nozzle needle 12; conical nozzle needle tip 40; frusto-conical body section 36.

7. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Holzgrefe (4,982,901).

Holzgrefe discloses a fuel injection valve comprising: a nozzle body 15; a nozzle needle 6; conical nozzle needle tip 21; frusto-conical body section 20.

8. Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Holzgrefe et al. (5,012,981).

Holzgrefe discloses a fuel injection valve comprising: a nozzle body 15; a nozzle needle 6; conical nozzle needle tip 21; frusto-conical body section 20.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571) 272-4905. The examiner can normally be reached on Monday - Thursday, 6:30 AM - 5:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher S. Kim Primary Examiner Art Unit 3752